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APPLICATION NO	D. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,645		10/03/2000	Da-Shan Shiu	PA000472	6060
23696	7590	12/10/2004		EXAMINER	
	m Incorpor	ated	LIU, SHUWANG		
Patents De	epartment ehouse Driv	e.	ART UNIT	PAPER NUMBER	
	, CA 9212		2634		

DATE MAILED: 12/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	a a an anagag
,	09/678,645	SHIU ET AL.	e s k
Office Action Summary	Examiner	Art Unit	
	Shuwang Liu	2634	
The MAILING DATE of this commun	nication appears on the cover sheet w	ith the correspondence add	dress
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this com - If the period for reply specified above is less than thirty (1) - If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no event, however, may a munication. 30) days, a reply within the statutory minimum of thi tatutory period will apply and will expire SIX (6) MOI y will, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely NTHS from the mailing date of this col BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) file	ed on 16 August 2004.		
· ·	2b)⊠. This action is non-final.		
* ***	n for allowance except for formal mat lice under <i>Ex parte Quayle</i> , 1935 C.I	• •	merits is
Disposition of Claims			
4)⊠ Claim(s) <u>9,13,14,16,21,31,32,34 and</u> 4a) Of the above claim(s) is/a 5)⊠ Claim(s) <u>13,14,21,31,32,34 and 35</u> 6)⊠ Claim(s) <u>9 and 16</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restri	are withdrawn from consideration. is/are allowed.	n.	•
Application Papers			
9)☐ The specification is objected to by the	ne Examiner.		
10) The drawing(s) filed on is/are	e: a)□ accepted or b)□ objected to	by the Examiner.	
	ection to the drawing(s) be held in abeya		
Replacement drawing sheet(s) including 11) The oath or declaration is objected to	g the correction is required if the drawing to by the Examiner. Note the attache		` ,
Priority under 35 U.S.C. § 119			
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in definition of the priority documents have been onal Bureau (PCT Rule 17.2(a)).	Application No received in this National \$	Stage
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (I Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date 		(s)/Mail Date Informal Patent Application (PTO 	⊢152)

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DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Furthermore, the allowable for claims 9 and 16 is withdrawn.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what "the start of each shortest time interval" refers to. "each shortest time interval" is refers to "time intervals" among the plurality of channels or a general reference time for the buffer partition.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 9 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Farrell et al. (US 5,24,541) (wherein "the star of each shortest time interval" is interpreted to be a reference time, for example, the time before transmission or transfer of data).

As shown in figures 1-8, Farrell et al. discloses:

(1) regarding claim 9:

A buffer structure (203) for storing symbols received via a plurality of channels, wherein each channel is associated with a particular time interval over which the received symbols are subsequently processed, the buffer structure comprising:

a buffer (40, 41 in figure 2, 52 in figure 3, and 77 in figure 6) partitioned into a plurality of sections, one section for each channel, wherein the plurality of sections are assigned to the plurality of channels based on the associated time intervals (column line 32-column 54, column 19, lines 2-38, column 24, lines 23-31, and column 27, line 40-column 28, line 50); and

an address generator (figure 4) coupled to the buffer and operative to provide addresses for writing symbols to the assigned sections (column 14, line 55-61 and column 17, lines 36-42);

wherein the buffer is partitioned and assigned prior to the start of the transmission (column line 32-column 54, column 19, lines 2-38, column 24, lines 23-31, and column 27, line 40-column 28, line 50).

(2)regarding claim 16:

A buffer structure (203) for storing symbols received via a plurality of channels,

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wherein each channel is associated with a particular time interval over which the received symbols are subsequently processed, the buffer structure comprising:

a buffer (40, 41 in figure 2, 52 in figure 3, and 77 in figure 6) partitioned into a plurality of sections, one section for each channel, wherein the plurality of sections are assigned to the plurality of channels based on the associated time intervals (column line 32-column 54, column 19, lines 2-38, column 24, lines 23-31, and column 27, line 40-column 28, line 50); and

an address generator (figure 4) coupled to the buffer and operative to provide addresses for writing symbols to the assigned sections (column 14, line 55-61 and column 17, lines 36-42);

wherein the address generator is operative to maintain a write point for each assigned section (column 14, lines 55-61); and

wherein the address generator is further operative to main a start location for assigned section (column 14, lines 33-61).

Allowable Subject Matter

- 6. Claims 13, 14, 21, 31, 32, 34 and 35 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to teach and suggest a buffer structure for storing symbols

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received via a plurality of channel including a first group of one or more channel and a second group of one or more channels as recited in claims.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is (571) 272-3036.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin, can be reached at (571) 272-3056.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Shuwang Liu Primary Examiner Art Unit 2634

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December 6, 2004